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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/529,206D

DATE: 11/21/2002

TIME: 10:25:26

Input Set : A:\218791.txt

Output Set: N:\CRF4\11212002\I529206D.raw

3 <110> APPLICANT: Wang Rong, Fu  
4 Rosenberg, Steven  
6 <120> TITLE OF INVENTION: Novel Human Cancer Antigen NY ESO-1/CAG-3 and Gene  
7 Encoding Same  
9 <130> FILE REFERENCE: 218791  
11 <140> CURRENT APPLICATION NUMBER: 09/529,206D  
12 <141> CURRENT FILING DATE: 2000-06-13  
14 <150> PRIOR APPLICATION NUMBER: PCT/US98/19609  
15 <151> PRIOR FILING DATE: 1998-09-21  
17 <150> PRIOR APPLICATION NUMBER: US60/061,428  
18 <151> PRIOR FILING DATE: 1997-10-08  
20 <160> NUMBER OF SEQ ID NOS: 127  
22 <170> SOFTWARE: PatentIn Ver. 2.1  
24 <210> SEQ ID NO: 1  
25 <211> LENGTH: 805  
26 <212> TYPE: DNA  
27 <213> ORGANISM: Homo sapiens  
29 <400> SEQUENCE: 1  
30 agcagggggc gctgtgtgta ccgagaatac gagaataacct cgtggggcct gaccttctct 60  
31 ctgagagccg ggcagaggct ccgagccat gcaggccgaa ggccggggca cagggggttc 120  
32 gacgggcat gctgatggcc caggaggccc tggcattcct gatggcccag ggggcaatgc 180  
33 tggcggccca ggagaggcgg gtgccacggg cggcagaggt ccccggggag caggggcagc 240  
34 aagggcctcg gggccgggag gaggcgcccc gcgggggtccg catggcgggc cggcttcagg 300  
35 gctgaatgga tgctgcagat gcggggccag ggggcccagg agccgcctgc ttgagttcta 360  
36 cctcgccatg cctttcgaga caccatgga agcagagctg gcccgcagga gcctggccca 420  
37 ggatgcccc cgccttccc tgccaggggt gcttctgaag gagttcactg tgtccggcaa 480  
38 catactgact atccgactga ctgctgcaga ccaccgcaa ctgcagctct ccatcagctc 540  
39 ctgtctccag cagctttccc tgttgatgtg gatcacgcag tgctttctgc ccgtgttttt 600  
40 ggctcagcct ccctcagggc agaggcgcta agcccagcct ggcccccctt cctaggtcat 660  
41 gcctcctccc ctagggaatg gtcccagcac gagtggccag ttcattgtgg gggcctgatt 720  
42 gtttgcgct ggaggaggac ggcttacatg tttgtttctg tagaaaataa aactgagcta 780  
43 cgaaaaaaaa aaaaaaaaaa aaaaa 805  
46 <210> SEQ ID NO: 2  
47 <211> LENGTH: 540  
48 <212> TYPE: DNA  
49 <213> ORGANISM: Homo sapiens  
51 <400> SEQUENCE: 2  
52 atgcaggccg aaggccgggg cacagggggt tcgacgggag atgctgatgg cccaggaggc 60  
53 cctggcattc ctgatggccc agggggcaat gctggcgagg caggagaggc gggtgccacg 120  
54 ggccggcagag gtccccgggg cgcaggggca gcaagggcct cggggccggg aggagggccc 180  
55 ccgcgggggtc cgcattggcg cgcggcttca gggctgaatg gatgctgcag atgcggggcc 240  
56 agggggccgg agagccgcct gcttgagttc tacctcgcca tgcctttcgc gacacccatg 300  
57 gaagcagagc tggcccgag gagcctggcc caggatgccc caccgcttcc cgtgccaggg 360

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58 gtgcttctga aggagttcac tgtgtccggc aacatactga ctatccgact gactgctgca 420  
 59 gaccaccgcc aactgcagct ctccatcagc tcctgtctcc agcagctttc cctgttgatg 480  
 60 tggatcacgc agtgctttct gcccggtgtt ttggctcagc ctccctcagg gcagaggcgc 540

63 &lt;210&gt; SEQ ID NO: 3

64 &lt;211&gt; LENGTH: 174

65 &lt;212&gt; TYPE: DNA

66 &lt;213&gt; ORGANISM: Homo sapiens

68 &lt;400&gt; SEQUENCE: 3

69 atgctgatgg cccaggaggc cctggcattc ctgatggccc agggggcaat gctggcggcc 60  
 70 caggagaggc ggggtgccacg ggcggcagag gtccccgggg cgcaggggca gcaagggcct 120  
 71 cggggccggg aggaggcgcc ccgcgggggtc cgcatggcgg cgcggttca gggc 174

74 &lt;210&gt; SEQ ID NO: 4

75 &lt;211&gt; LENGTH: 180

76 &lt;212&gt; TYPE: PRT

77 &lt;213&gt; ORGANISM: Homo sapiens

79 &lt;400&gt; SEQUENCE: 4

80 Met Gln Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr Gly Asp Ala Asp  
 81 1 5 10 15  
 83 Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly  
 84 20 25 30  
 86 Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala  
 87 35 40 45  
 89 Gly Ala Ala Arg Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg Gly Pro  
 90 50 55 60  
 92 His Gly Gly Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg Cys Gly Ala  
 93 65 70 75 80  
 95 Arg Gly Pro Glu Ser Arg Leu Leu Glu Phe Tyr Leu Ala Met Pro Phe  
 96 85 90 95  
 98 Ala Thr Pro Met Glu Ala Glu Leu Ala Arg Arg Ser Leu Ala Gln Asp  
 99 100 105 110  
 101 Ala Pro Pro Leu Pro Val Pro Gly Val Leu Leu Lys Glu Phe Thr Val  
 102 115 120 125  
 104 Ser Gly Asn Ile Leu Thr Ile Arg Leu Thr Ala Ala Asp His Arg Gln  
 105 130 135 140  
 107 Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln Gln Leu Ser Leu Leu Met  
 108 145 150 155 160  
 110 Trp Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Pro Pro Ser  
 111 165 170 175

113 Gly Gln Arg Arg

114 180

117 &lt;210&gt; SEQ ID NO: 5

118 &lt;211&gt; LENGTH: 58

119 &lt;212&gt; TYPE: PRT

120 &lt;213&gt; ORGANISM: Homo sapiens

122 &lt;400&gt; SEQUENCE: 5

123 Met Leu Met Ala Gln Glu Ala Leu Ala Phe Leu Met Ala Gln Gly Ala  
 124 1 5 10 15  
 126 Met Leu Ala Ala Gln Glu Arg Arg Val Pro Arg Ala Ala Glu Val Pro  
 127 20 25 30

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```

129 Gly Ala Gln Gly Gln Gln Gly Pro Arg Gly Arg Glu Glu Ala Pro Arg
130           35           40           45
132 Gly Val Arg Met Ala Ala Arg Leu Gln Gly
133           50           55
136 <210> SEQ ID NO: 6
137 <211> LENGTH: 9
138 <212> TYPE: PRT
139 <213> ORGANISM: Homo sapiens
141 <400> SEQUENCE: 6
142 Ala Gln Pro Pro Ser Gly Gln Arg Arg
143   1           5
146 <210> SEQ ID NO: 7
147 <211> LENGTH: 9
148 <212> TYPE: PRT
149 <213> ORGANISM: Homo sapiens
151 <400> SEQUENCE: 7
152 Thr Pro Met Glu Ala Glu Leu Ala Arg
153   1           5
156 <210> SEQ ID NO: 8
157 <211> LENGTH: 9
158 <212> TYPE: PRT
159 <213> ORGANISM: Homo sapiens
161 <400> SEQUENCE: 8
162 Pro Met Glu Ala Glu Leu Ala Arg Arg
163   1           5
166 <210> SEQ ID NO: 9
167 <211> LENGTH: 9
168 <212> TYPE: PRT
169 <213> ORGANISM: Homo sapiens
171 <400> SEQUENCE: 9
172 Gly Ala Thr Gly Gly Arg Gly Pro Arg
173   1           5
176 <210> SEQ ID NO: 10
177 <211> LENGTH: 9
178 <212> TYPE: PRT
179 <213> ORGANISM: Homo sapiens
181 <400> SEQUENCE: 10
182 Gly Pro Arg Gly Ala Gly Ala Ala Arg
183   1           5
186 <210> SEQ ID NO: 11
187 <211> LENGTH: 9
188 <212> TYPE: PRT
189 <213> ORGANISM: Homo sapiens
191 <400> SEQUENCE: 11
192 Leu Ala Gln Pro Pro Ser Gly Gln Arg
193   1           5
196 <210> SEQ ID NO: 12
197 <211> LENGTH: 9
198 <212> TYPE: PRT

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Input Set : A:\218791.txt

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199 <213> ORGANISM: Homo sapiens  
201 <400> SEQUENCE: 12  
202 Val Ser Gly Asn Ile Leu Thr Ile Arg  
203 1 5  
206 <210> SEQ ID NO: 13  
207 <211> LENGTH: 9  
208 <212> TYPE: PRT  
209 <213> ORGANISM: Homo sapiens  
211 <400> SEQUENCE: 13  
212 Ile Arg Leu Thr Ala Ala Asp His Arg  
213 1 5  
216 <210> SEQ ID NO: 14  
217 <211> LENGTH: 9  
218 <212> TYPE: PRT  
219 <213> ORGANISM: Homo sapiens  
221 <400> SEQUENCE: 14  
222 Ser Gly Pro Gly Gly Gly Ala Pro Arg  
223 1 5  
226 <210> SEQ ID NO: 15  
227 <211> LENGTH: 10  
228 <212> TYPE: PRT  
229 <213> ORGANISM: Homo sapiens  
231 <400> SEQUENCE: 15  
232 Thr Val Ser Gly Asn Ile Leu Thr Ile Arg  
233 1 5 10  
236 <210> SEQ ID NO: 16  
237 <211> LENGTH: 10  
238 <212> TYPE: PRT  
239 <213> ORGANISM: Homo sapiens  
241 <400> SEQUENCE: 16  
242 Thr Ile Arg Leu Thr Ala Ala Asp His Arg  
243 1 5 10  
246 <210> SEQ ID NO: 17  
247 <211> LENGTH: 10  
248 <212> TYPE: PRT  
249 <213> ORGANISM: Homo sapiens  
251 <400> SEQUENCE: 17  
252 Ala Thr Pro Met Glu Ala Glu Leu Ala Arg  
253 1 5 10  
256 <210> SEQ ID NO: 18  
257 <211> LENGTH: 10  
258 <212> TYPE: PRT  
259 <213> ORGANISM: Homo sapiens  
261 <400> SEQUENCE: 18  
262 Phe Leu Ala Gln Pro Pro Ser Gly Gln Arg  
263 1 5 10  
266 <210> SEQ ID NO: 19  
267 <211> LENGTH: 10  
268 <212> TYPE: PRT

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Input Set : A:\218791.txt

Output Set: N:\CRF4\11212002\I529206D.raw

269 <213> ORGANISM: Homo sapiens  
271 <400> SEQUENCE: 19  
272 Thr Pro Met Glu Ala Glu Leu Ala Arg Arg  
273 1 5 10  
276 <210> SEQ ID NO: 20  
277 <211> LENGTH: 10  
278 <212> TYPE: PRT  
279 <213> ORGANISM: Homo sapiens  
281 <400> SEQUENCE: 20  
282 Arg Cys Gly Ala Arg Gly Pro Glu Ser Arg  
283 1 5 10  
286 <210> SEQ ID NO: 21  
287 <211> LENGTH: 10  
288 <212> TYPE: PRT  
289 <213> ORGANISM: Homo sapiens  
291 <400> SEQUENCE: 21  
292 Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg  
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296 <210> SEQ ID NO: 22  
297 <211> LENGTH: 10  
298 <212> TYPE: PRT  
299 <213> ORGANISM: Homo sapiens  
301 <400> SEQUENCE: 22  
302 Leu Ala Gln Pro Pro Ser Gly Gln Arg Arg  
303 1 5 10  
306 <210> SEQ ID NO: 23  
307 <211> LENGTH: 10  
308 <212> TYPE: PRT  
309 <213> ORGANISM: Homo sapiens  
311 <400> SEQUENCE: 23  
312 Arg Gly Pro Arg Gly Ala Gly Ala Ala Arg  
313 1 5 10  
316 <210> SEQ ID NO: 24  
317 <211> LENGTH: 10  
318 <212> TYPE: PRT  
319 <213> ORGANISM: Homo sapiens  
321 <400> SEQUENCE: 24  
322 Leu Asn Gly Cys Cys Arg Cys Gly Ala Arg  
323 1 5 10  
326 <210> SEQ ID NO: 25  
327 <211> LENGTH: 10  
328 <212> TYPE: PRT  
329 <213> ORGANISM: Homo sapiens  
331 <400> SEQUENCE: 25  
332 Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg  
333 1 5 10  
336 <210> SEQ ID NO: 26  
337 <211> LENGTH: 15  
338 <212> TYPE: PRT

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/529,206D

DATE: 11/21/2002  
TIME: 10:25:28

Input Set : A:\218791.txt  
Output Set: N:\CRF4\11212002\I529206D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:54; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,20